

Work Order ID 108627

October-25-13 8:43:33 AM

649.8301

108627

Page 1

Item ID: 649.8301

108627

Accept

N900040100

Setup Start *NS1*

Revision ID:

Stop *NS2*

Item Name: Cutter Sub Assembly

Start Date: 10/25/13 Start Qty: 20.00

20

Cust Item ID:

Required Date: 11/08/13 Req'd Qty: 20.00

20

Customer:

Reference:

Approvals: Process Plan: ML5 Date: 13-10-25 Tooling: _____ Date: _____

Run Start *NR1*

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr

Revision Nbr

649.8300

110

Pick Kit

0.00

110

Packaging

Memo

0.00

Packaging

20

φ

φ

DAS
41
9-89

14-7-17

120

0.00

120

Small Fab

Memo

0.00

Small Fab

Assemble as per dwg and apply loctite 598 on all faying surfaces per note.

A/R RTV LOCTITE 598:

exp. date: 03/15

125 540

20

CH 14-0720

130

QC5- Inspect part completeness to step on W/O

0.00

130

QC

Memo

0.00

Quality Control

SHP
14/7/21

20

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Suspected Unapproved <input type="checkbox"/>	AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
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Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>															
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Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric <input type="checkbox"/> Cracks <input type="checkbox"/> Crimp/Kink/Ripple/Wave <input type="checkbox"/> Cuffs <input type="checkbox"/> Crushing <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Marks/Chatter <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damage/Defect <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drawing <input type="checkbox"/> Drill Holes <input type="checkbox"/> Finish <input type="checkbox"/> Fit/Function	<input type="checkbox"/> Folio/Program <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete/Unqualified <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Misaligned/off center <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Off-set <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence	<input type="checkbox"/> Outside Dimensions <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Set-up <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other _____ _____ _____
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Picklist Print

October-25-13 8:43:37 AM

Page 1

Work Order ID: 108627

108627

Parent Item: 649.8301

649 8301

Parent Item Name: Cutter Sub Assembly

Start Date: 10/25/13

Required Date: 11/08/13

Start Qty: 20.00

Required Qty: 20.00

Comments: IPP REV:A NEW ISSUE 13-10-23 JLM VERIFIED BY:DD

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
646.9711		Manufactured	No				Each	235.0000		40			
646 9711													
Blade													
					110622				**	1		AS 14-7-17	
					106350					2			
					110041					12			
					105988					1			
				CA				234		18			
					100268			97					
					102756			60					
					98911			77		6			
				ST437				1					
					91807			1					
649.8310		Manufactured	No				Each	0.0000		20			
649 8310													
Cutter Body					108707				**	16		AS 14-7-17	
MS21042L08					108706					4			
MS21042L 08													
Nut													
		Purchased	No				Each	2,517.000		120			
									**			DAS 48 9-08 14-7-17	
					128429					120			
				ST315				517					
					122141			3					
					122452			9					
					122814			398					
					123900			107					
				ST505				2000					
					125445			2000					

DQA: _____ Date: _____



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Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>															
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FAULT CATEGORY

Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric <input type="checkbox"/> Cracks <input type="checkbox"/> Crimp/Kink/Ripple/Wave <input type="checkbox"/> Cuffs <input type="checkbox"/> Crushing <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Marks/Chatter <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damage/Defect <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drawing <input type="checkbox"/> Drill Holes <input type="checkbox"/> Finish <input type="checkbox"/> Fit/Function	<input type="checkbox"/> Folio/Program <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete/Unqualified <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Misaligned/off center <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Off-set <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence	<input type="checkbox"/> Outside Dimensions <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Set-up <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other _____ _____ _____
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Picklist Print

Page 2

October-25-13 8:43:37 AM

Work Order ID: 108627

108627

Parent Item: 649.8301

649 8301

Parent Item Name: Cutter Sub Assembly

Start Date: 10/25/13

Required Date: 11/08/13

Start Qty: 20.00

Required Qty: 20.00

MS27039-08-19

Purchased

No

Each

1,972.000

120

MS27039-08-19

**

DAS
41
9-89

14-7-17

Screw

127410

87

Location

Loc Qty

Loc Code

ST307

89

123525

89

ST308

40

m126474

40

ST309

643

125654

643

st510

1200

124309

1200

~~127~~ 33

NAS1149FN832P

Purchased

No

Each

14,256.00

240

NAS1149FN832P

**

DAS
41
9-89

14-7-17

Washer

Location

Loc Qty

Loc Code

ST294

4280

123522

398

123900

3882

ST510a

9976

125268

9976

240

October-25-13 8:43:37 AM

Shop Packet Print

Page 2

DQA: _____ Date: _____



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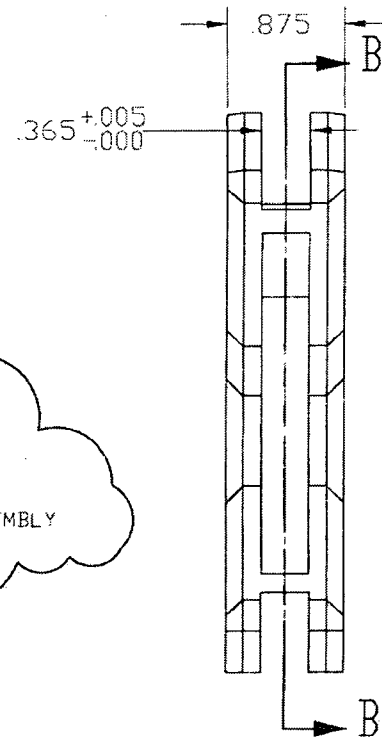
APICAL INDUSTRIES, INC.	ENGINEERING CHANGE NOTICE NO. 03524				SHEET OF 1	
	DWG NO. 649.8300	REV: NC	PREPARED BY S. COCHRAN	DATE: 05/23/12	EFFECT ON DWG <input type="checkbox"/> INC. <input checked="" type="checkbox"/> UNINC.	
	DWG TITLE: CUTTER SUB ASSY					
APPROVED BY: ENGR <i>[Signature]</i>		MFG <i>[Signature]</i>	QC <i>[Signature]</i>	EFF: CURRENT ORDER		
TRANSACTION CODES (TC): A-ADD C-CREATE R-REVISE D-DELETE		REASON: REMOVED NOTE 6, REVISED CUT OUT DIMENSION				

SHEET 1, ZONE A1 IS:

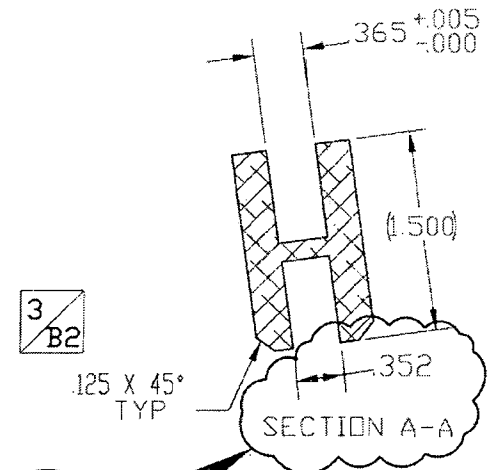
NOTES:

- 1 MATERIAL: ALUMINUM 7075-T651 PER AMS-QQ-A-250/12
- 2 FINISH: HARD ANODIZE IAW MIL-A-8625 TYPE III,
CLASS 2, COLOR BLACK;
PRETREAT PRC-DESOTO PR-148 ADHESION PROMOTER;
PRIME IAW MIL-P-23377J TYPE 1 CLASS N; 1-2 MIL MAX
- 3 DEBURR AND BREAK ALL SHARP EDGES EXCEPT WHERE OTHERWISE NOTED
- 4 IDENTIFY IAW MPP-120
- 5 APPLY F/N 6 AS REQUIRED TO ALL MATING SURFACES OF F/N 5 UPON ASSEMBLY

IS



SHEET 2, ZONE D8 IS:



IS

108627 MLS
13-10-25

DOCUMENTS EFFECTED:

☐ MDL ☐ INSTALL INSTRU ☐ ICA ☐ BOM

CHANGE CATEGORY
☐ MAJOR ☒ MINOR

DER REVIEW REQUIRED
☐ YES ☒ NO

DQA: _____ Date: _____



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Training									
Transport									
Unapproved									

FAULT CATEGORY

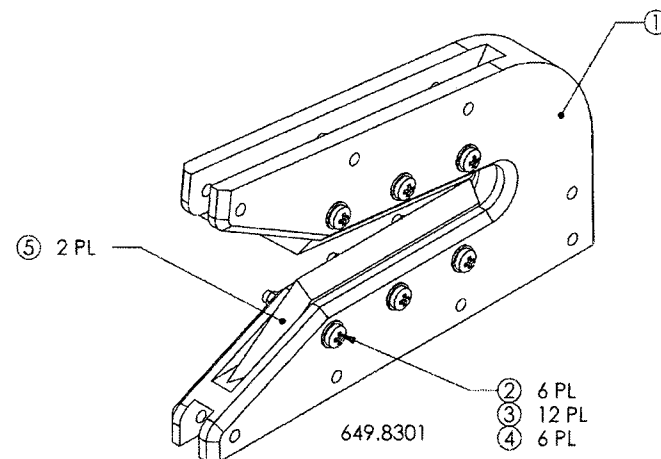
Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric <input type="checkbox"/> Cracks <input type="checkbox"/> Crimp/Kink/Ripple/Wave <input type="checkbox"/> Cuffs <input type="checkbox"/> Crushing <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Marks/Chatter <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damage/Defect <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drawing <input type="checkbox"/> Drill Holes <input type="checkbox"/> Finish <input type="checkbox"/> Fit/Function	<input type="checkbox"/> Folio/Program <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete/Unqualified <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Misaligned/off center <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Off-set <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence	<input type="checkbox"/> Outside Dimensions <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Set-up <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other
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REV	DESCRIPTION	DATE	APPROVED
N/C	INITIAL RELEASE	04-18-12	F. BRAVO

108627

- 1 MATERIAL: ALUMINUM 7075-T651 PER AMS-QQ-A-250/12
- 2 FINISH: HARD ANODIZE IAW MIL-A-8625 TYPE III, CLASS 2, COLOR BLACK;
PRETREAT PRC-DESOTO PR-148 ADHESION PROMOTER;
PRIME IAW MIL-P-23377J TYPE I CLASS N; 1-2 MIL MAX
3. DEBURR AND BREAK ALL SHARP EDGES EXCEPT WHERE OTHERWISE NOTED
4. IDENTIFY IAW MPP-120
- 5 APPLY F/N 6 AS REQUIRED TO ALL FAYING SURFACES OF F/N 5 UPON ASSEMBLY
- 6 CUTTING EDGE INTENDED TO BE SHARP, DO NOT BREAK SHARP EDGE



UNINCORPORATED ECN(s)

03524

A/R	6	601.2764	RTV	LOCITE 598	
2	5	646.9711	BLADE		
6	4	601.1541	LOCKNUT	MS21042L08	
12	3	601.2764	WASHER	NAS1149FN832P	
6	2	601.2765	SCREW	MS27039-0819	
1	1	649.8310	CUTTER BODY		
1	1	649.8301	CUTTER ASSY		
8301	FIND #	PART #	DESCRIPTION	MAT'L	SPEC.
QTY					
NEXT ASSY (S)					
649.4900					
<div>ORIGINAL DATE: 04-18-12 DRAWN BY: J. COOPER CHECKED BY: F. BRAVO DRAWING APPROVAL: F. BRAVO REVISION: 001 CONTROL: 116</div>			<div>APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5535</div>		
<div>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS: 1/16, 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8 DECIMALS: .010, .015, .020, .030, .040, .050, .060, .070, .080, .090, .100, .110, .120, .130, .140, .150, .160, .170, .180, .190, .200, .210, .220, .230, .240, .250, .260, .270, .280, .290, .300, .310, .320, .330, .340, .350, .360, .370, .380, .390, .400, .410, .420, .430, .440, .450, .460, .470, .480, .490, .500, .510, .520, .530, .540, .550, .560, .570, .580, .590, .600, .610, .620, .630, .640, .650, .660, .670, .680, .690, .700, .710, .720, .730, .740, .750, .760, .770, .780, .790, .800, .810, .820, .830, .840, .850, .860, .870, .880, .890, .900, .910, .920, .930, .940, .950, .960, .970, .980, .990, 1.000, 1.010, 1.020, 1.030, 1.040, 1.050, 1.060, 1.070, 1.080, 1.090, 1.100, 1.110, 1.120, 1.130, 1.140, 1.150, 1.160, 1.170, 1.180, 1.190, 1.200, 1.210, 1.220, 1.230, 1.240, 1.250, 1.260, 1.270, 1.280, 1.290, 1.300, 1.310, 1.320, 1.330, 1.340, 1.350, 1.360, 1.370, 1.380, 1.390, 1.400, 1.410, 1.420, 1.430, 1.440, 1.450, 1.460, 1.470, 1.480, 1.490, 1.500, 1.510, 1.520, 1.530, 1.540, 1.550, 1.560, 1.570, 1.580, 1.590, 1.600, 1.610, 1.620, 1.630, 1.640, 1.650, 1.660, 1.670, 1.680, 1.690, 1.700, 1.710, 1.720, 1.730, 1.740, 1.750, 1.760, 1.770, 1.780, 1.790, 1.800, 1.810, 1.820, 1.830, 1.840, 1.850, 1.860, 1.870, 1.880, 1.890, 1.900, 1.910, 1.920, 1.930, 1.940, 1.950, 1.960, 1.970, 1.980, 1.990, 2.000, 2.010, 2.020, 2.030, 2.040, 2.050, 2.060, 2.070, 2.080, 2.090, 2.100, 2.110, 2.120, 2.130, 2.140, 2.150, 2.160, 2.170, 2.180, 2.190, 2.200, 2.210, 2.220, 2.230, 2.240, 2.250, 2.260, 2.270, 2.280, 2.290, 2.300, 2.310, 2.320, 2.330, 2.340, 2.350, 2.360, 2.370, 2.380, 2.390, 2.400, 2.410, 2.420, 2.430, 2.440, 2.450, 2.460, 2.470, 2.480, 2.490, 2.500, 2.510, 2.520, 2.530, 2.540, 2.550, 2.560, 2.570, 2.580, 2.590, 2.600, 2.610, 2.620, 2.630, 2.640, 2.650, 2.660, 2.670, 2.680, 2.690, 2.700, 2.710, 2.720, 2.730, 2.740, 2.750, 2.760, 2.770, 2.780, 2.790, 2.800, 2.810, 2.820, 2.830, 2.840, 2.850, 2.860, 2.870, 2.880, 2.890, 2.900, 2.910, 2.920, 2.930, 2.940, 2.950, 2.960, 2.970, 2.980, 2.990, 3.000, 3.010, 3.020, 3.030, 3.040, 3.050, 3.060, 3.070, 3.080, 3.090, 3.100, 3.110, 3.120, 3.130, 3.140, 3.150, 3.160, 3.170, 3.180, 3.190, 3.200, 3.210, 3.220, 3.230, 3.240, 3.250, 3.260, 3.270, 3.280, 3.290, 3.300, 3.310, 3.320, 3.330, 3.340, 3.350, 3.360, 3.370, 3.380, 3.390, 3.400, 3.410, 3.420, 3.430, 3.440, 3.450, 3.460, 3.470, 3.480, 3.490, 3.500, 3.510, 3.520, 3.530, 3.540, 3.550, 3.560, 3.570, 3.580, 3.590, 3.600, 3.610, 3.620, 3.630, 3.640, 3.650, 3.660, 3.670, 3.680, 3.690, 3.700, 3.710, 3.720, 3.730, 3.740, 3.750, 3.760, 3.770, 3.780, 3.790, 3.800, 3.810, 3.820, 3.830, 3.840, 3.850, 3.860, 3.870, 3.880, 3.890, 3.900, 3.910, 3.920, 3.930, 3.940, 3.950, 3.960, 3.970, 3.980, 3.990, 4.000, 4.010, 4.020, 4.030, 4.040, 4.050, 4.060, 4.070, 4.080, 4.090, 4.100, 4.110, 4.120, 4.130, 4.140, 4.150, 4.160, 4.170, 4.180, 4.190, 4.200, 4.210, 4.220, 4.230, 4.240, 4.250, 4.260, 4.270, 4.280, 4.290, 4.300, 4.310, 4.320, 4.330, 4.340, 4.350, 4.360, 4.370, 4.380, 4.390, 4.400, 4.410, 4.420, 4.430, 4.440, 4.450, 4.460, 4.470, 4.480, 4.490, 4.500, 4.510, 4.520, 4.530, 4.540, 4.550, 4.560, 4.570, 4.580, 4.590, 4.600, 4.610, 4.620, 4.630, 4.640, 4.650, 4.660, 4.670, 4.680, 4.690, 4.700, 4.710, 4.720, 4.730, 4.740, 4.750, 4.760, 4.770, 4.780, 4.790, 4.800, 4.810, 4.820, 4.830, 4.840, 4.850, 4.860, 4.870, 4.880, 4.890, 4.900, 4.910, 4.920, 4.930, 4.940, 4.950, 4.960, 4.970, 4.980, 4.990, 5.000, 5.010, 5.020, 5.030, 5.040, 5.050, 5.060, 5.070, 5.080, 5.090, 5.100, 5.110, 5.120, 5.130, 5.140, 5.150, 5.160, 5.170, 5.180, 5.190, 5.200, 5.210, 5.220, 5.230, 5.240, 5.250, 5.260, 5.270, 5.280, 5.290, 5.300, 5.310, 5.320, 5.330, 5.340, 5.350, 5.360, 5.370, 5.380, 5.390, 5.400, 5.410, 5.420, 5.430, 5.440, 5.450, 5.460, 5.470, 5.480, 5.490, 5.500, 5.510, 5.520, 5.530, 5.540, 5.550, 5.560, 5.570, 5.580, 5.590, 5.600, 5.610, 5.620, 5.630, 5.640, 5.650, 5.660, 5.670, 5.680, 5.690, 5.700, 5.710, 5.720, 5.730, 5.740, 5.750, 5.760, 5.770, 5.780, 5.790, 5.800, 5.810, 5.820, 5.830, 5.840, 5.850, 5.860, 5.870, 5.880, 5.890, 5.900, 5.910, 5.920, 5.930, 5.940, 5.950, 5.960, 5.970, 5.980, 5.990, 6.000, 6.010, 6.020, 6.030, 6.040, 6.050, 6.060, 6.070, 6.080, 6.090, 6.100, 6.110, 6.120, 6.130, 6.140, 6.150, 6.160, 6.170, 6.180, 6.190, 6.200, 6.210, 6.220, 6.230, 6.240, 6.250, 6.260, 6.270, 6.280, 6.290, 6.300, 6.310, 6.320, 6.330, 6.340, 6.350, 6.360, 6.370, 6.380, 6.390, 6.400, 6.410, 6.420, 6.430, 6.440, 6.450, 6.460, 6.470, 6.480, 6.490, 6.500, 6.510, 6.520, 6.530, 6.540, 6.550, 6.560, 6.570, 6.580, 6.590, 6.600, 6.610, 6.620, 6.630, 6.640, 6.650, 6.660, 6.670, 6.680, 6.690, 6.700, 6.710, 6.720, 6.730, 6.740, 6.750, 6.760, 6.770, 6.780, 6.790, 6.800, 6.810, 6.820, 6.830, 6.840, 6.850, 6.860, 6.870, 6.880, 6.890, 6.900, 6.910, 6.920, 6.930, 6.940, 6.950, 6.960, 6.970, 6.980, 6.990, 7.000, 7.010, 7.020, 7.030, 7.040, 7.050, 7.060, 7.070, 7.080, 7.090, 7.100, 7.110, 7.120, 7.130, 7.140, 7.150, 7.160, 7.170, 7.180, 7.190, 7.200, 7.210, 7.220, 7.230, 7.240, 7.250, 7.260, 7.270, 7.280, 7.290, 7.300, 7.310, 7.320, 7.330, 7.340, 7.350, 7.360, 7.370, 7.380, 7.390, 7.400, 7.410, 7.420, 7.430, 7.440, 7.450, 7.460, 7.470, 7.480, 7.490, 7.500, 7.510, 7.520, 7.530, 7.540, 7.550, 7.560, 7.570, 7.580, 7.590, 7.600, 7.610, 7.620, 7.630, 7.640, 7.650, 7.660, 7.670, 7.680, 7.690, 7.700, 7.710, 7.720, 7.730, 7.740, 7.750, 7.760, 7.770, 7.780, 7.790, 7.800, 7.810, 7.820, 7.830, 7.840, 7.850, 7.860, 7.870, 7.880, 7.890, 7.900, 7.910, 7.920, 7.930, 7.940, 7.950, 7.960, 7.970, 7.980, 7.990, 8.000, 8.010, 8.020, 8.030, 8.040, 8.050, 8.060, 8.070, 8.080, 8.090, 8.100, 8.110, 8.120, 8.130, 8.140, 8.150, 8.160, 8.170, 8.180, 8.190, 8.200, 8.210, 8.220, 8.230, 8.240, 8.250, 8.260, 8.270, 8.280, 8.290, 8.300, 8.310, 8.320, 8.330, 8.340, 8.350, 8.360, 8.370, 8.380, 8.390, 8.400, 8.410, 8.420, 8.430, 8.440, 8.450, 8.460, 8.470, 8.480, 8.490, 8.500, 8.510, 8.520, 8.530, 8.540, 8.550, 8.560, 8.570, 8.580, 8.590, 8.600, 8.610, 8.620, 8.630, 8.640, 8.650, 8.660, 8.670, 8.680, 8.690, 8.700, 8.710, 8.720, 8.730, 8.740, 8.750, 8.760, 8.770, 8.780, 8.790, 8.800, 8.810, 8.820, 8.830, 8.840, 8.850, 8.860, 8.870, 8.880, 8.890, 8.900, 8.910, 8.920, 8.930, 8.940, 8.950, 8.960, 8.970, 8.980, 8.990, 9.000, 9.010, 9.020, 9.030, 9.040, 9.050, 9.060, 9.070, 9.080, 9.090, 9.100, 9.110, 9.120, 9.130, 9.140, 9.150, 9.160, 9.170, 9.180, 9.190, 9.200, 9.210, 9.220, 9.230, 9.240, 9.250, 9.260, 9.270, 9.280, 9.290, 9.300, 9.310, 9.320, 9.330, 9.340, 9.350, 9.360, 9.370, 9.380, 9.390, 9.400, 9.410, 9.420, 9.430, 9.440, 9.450, 9.460, 9.470, 9.480, 9.490, 9.500, 9.510, 9.520, 9.530, 9.540, 9.550, 9.560, 9.570, 9.580, 9.590, 9.600, 9.610, 9.620, 9.630, 9.640, 9.650, 9.660, 9.670, 9.680, 9.690, 9.700, 9.710, 9.720, 9.730, 9.740, 9.750, 9.760, 9.770, 9.780, 9.790, 9.800, 9.810, 9.820, 9.830, 9.840, 9.850, 9.860, 9.870, 9.880, 9.890, 9.900, 9.910, 9.920, 9.930, 9.940, 9.950, 9.960, 9.970, 9.980, 9.990, 10.000, 10.010, 10.020, 10.030, 10.040, 10.050, 10.060, 10.070, 10.080, 10.090, 10.100, 10.110, 10.120, 10.130, 10.140, 10.150, 10.160, 10.170, 10.180, 10.190, 10.200, 10.210, 10.220, 10.230, 10.240, 10.250, 10.260, 10.270, 10.280, 10.290, 10.300, 10.310, 10.320, 10.330, 10.340, 10.350, 10.360, 10.370, 10.380, 10.390, 10.400, 10.410, 10.420, 10.430, 10.440, 10.450, 10.460, 10.470, 10.480, 10.490, 10.500, 10.510, 10.520, 10.530, 10.540, 10.550, 10.560, 10.570, 10.580, 10.590, 10.600, 10.610, 10.620, 10.630, 10.640, 10.650, 10.660, 10.670, 10.680, 10.690, 10.700, 10.710, 10.720, 10.730, 10.740, 10.750, 10.760, 10.770, 10.780, 10.790, 10.800, 10.810, 10.820, 10.830, 10.840, 10.850, 10.860, 10.870, 10.880, 10.890, 10.900, 10.910, 10.920, 10.930, 10.940, 10.950, 10.960, 10.970, 10.980, 10.990, 11.000, 11.010, 11.020, 11.030, 11.040, 11.050, 11.060, 11.070, 11.080, 11.090, 11.100, 11.110, 11.120, 11.130, 11.140, 11.150, 11.160, 11.170, 11.180, 11.190, 11.200, 11.210, 11.220, 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14.980, 14.990, 15.000, 15.010, 15.020, 15.030, 15.040, 15.050, 15.060, 15.070, 15.080, 15.090, 15.100, 15.110, 15.120, 15.130, 15.140, 15.150, 15.160, 15.170, 15.180, 15.190, 15.200, 15.210, 15.220, 15.230, 15.240, 15.250, 15.260, 15.270, 15.280, 15.290, 15.300, 15.310, 15.320, 15.330, 15.340, 15.350, 15.360, 15.370, 15.380, 15.390, 15.400, 15.410, 15.420, 15.430, 15.440, 15.450, 15.460, 15.470, 15.480, 15.490, 15.500, 15.510, 15.520, 15.530, 15.540, 15.550, 15.560, 15.570, 15.580, 15.590, 15.600, 15.610, 15.620, 15.630, 15.640, 15.650, 15.660, 15.670, 15.680, 15.690, 15.700, 15.710, 15.720, 15.730, 15.740, 15.750, 15.760, 15.770, 15.780, 15.790, 15.800, 15.810, 15.820, 15.830, 15.840, 15.850, 15.860, 15.870, 15.880, 15.890, 15.900, 15.910, 15.920, 15.930, 15.940, 15.950, 15.960, 15.970, 15.980, 15.990, 16.000, 16.010, 16.020, 16.030, 16.040, 16.050, 16.060, 16.070, 16.</div>					

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Suspected Unapproved <input type="checkbox"/>	AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>															
Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>															
Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>															
Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>																

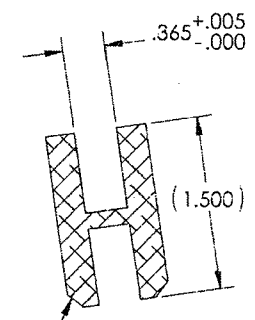
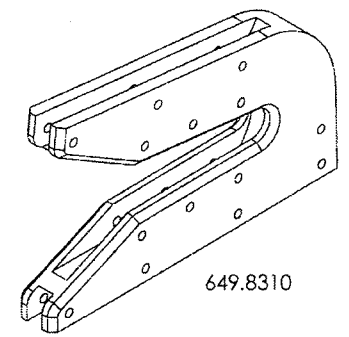
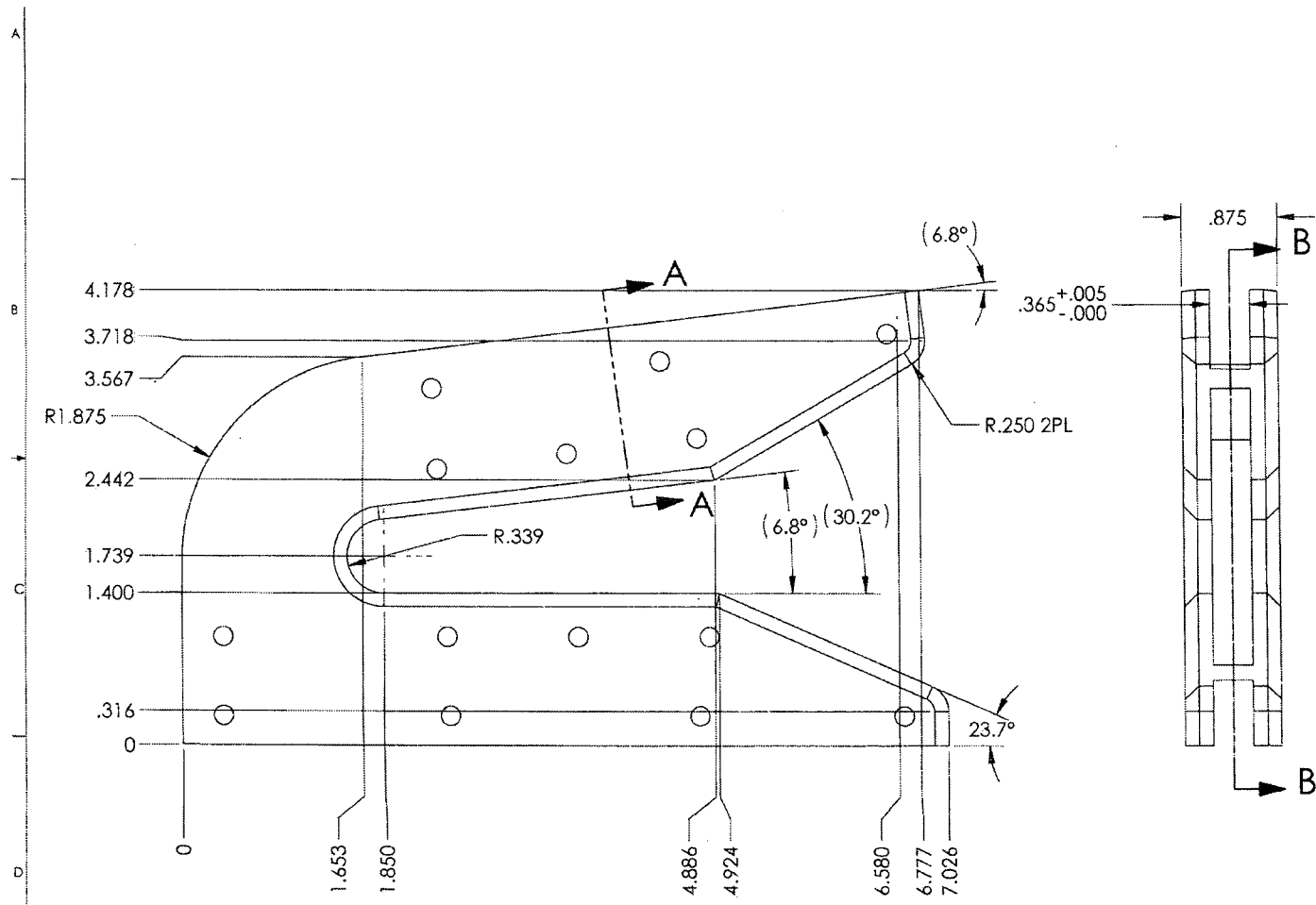
Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric <input type="checkbox"/> Cracks <input type="checkbox"/> Crimp/Kink/Ripple/Wave <input type="checkbox"/> Cuffs <input type="checkbox"/> Crushing <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Marks/Chatter <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damage/Defect <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drawing <input type="checkbox"/> Drill Holes <input type="checkbox"/> Finish <input type="checkbox"/> Fit/Function	<input type="checkbox"/> Folio/Program <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete/Unqualified <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Misaligned/off center <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Off-set <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence	<input type="checkbox"/> Outside Dimensions <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Set-up <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other
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ORIGINAL DATE 10-12-17	APICAL INDUSTRIES		
DRAWN BY: CHICKER	2608 TEMPLE HEIGHTS DR.		
CHECKED BY: P. BRAVO	OCEANSIDE, CA. 92056-3512 (760)724-5300		
DRAWING APPROVAL P. BRAVO	CUTTER SUB ASSY		
DATE: 10-12-17			
CONTRACT NO.			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ± .5°	REV B	CAGE CODE 07M26	DWG. NO. 649.8300
SCALE: NONE		REV INC	
		SHEET 2 OF 4	

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Suspected Unapproved <input type="checkbox"/>	AGAINST DEPARTMENT/PROCESS <table style="width:100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>															
Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>															
Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>															
Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>																

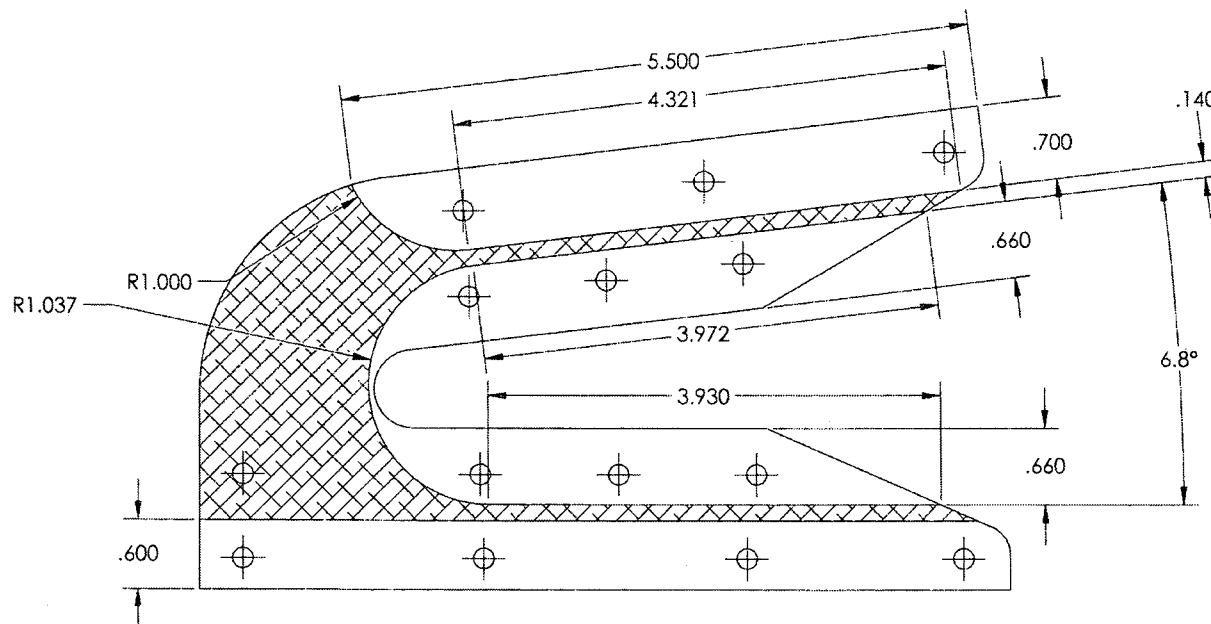
Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric <input type="checkbox"/> Cracks <input type="checkbox"/> Crimp/Kink/Ripple/Wave <input type="checkbox"/> Cuffs <input type="checkbox"/> Crushing <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Marks/Chatter <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damage/Defect <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drawing <input type="checkbox"/> Drill Holes <input type="checkbox"/> Finish <input type="checkbox"/> Fit/Function	<input type="checkbox"/> Folio/Program <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete/Unqualified <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Misaligned/off center <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Off-set <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence	<input type="checkbox"/> Outside Dimensions <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Set-up <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other
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SECTION B-B
SCALE 1 : 1

2
C6

ORIGINAL DATE INDICATED 04-12-12		APICAL INDUSTRIES	
DRAWN BY: CHOPPER		2608 TEMPLE HEIGHTS DR.	
1. COCHRAN P. SPANO		OCEANSIDE, CA. 92056-3512 (760)724-5300	
DRAWING APPROVAL		CUTTER SUB ASSY	
P. SPANO			
SHEET NO.			
CONTRACT NO.			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 ANGLES ± .5°		MATERIAL B 07M16	REV. NC
SCALE NONE		SHEET 3 OF 4	

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Suspected Unapproved <input type="checkbox"/>	AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>															
Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>															
Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>															
Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>																

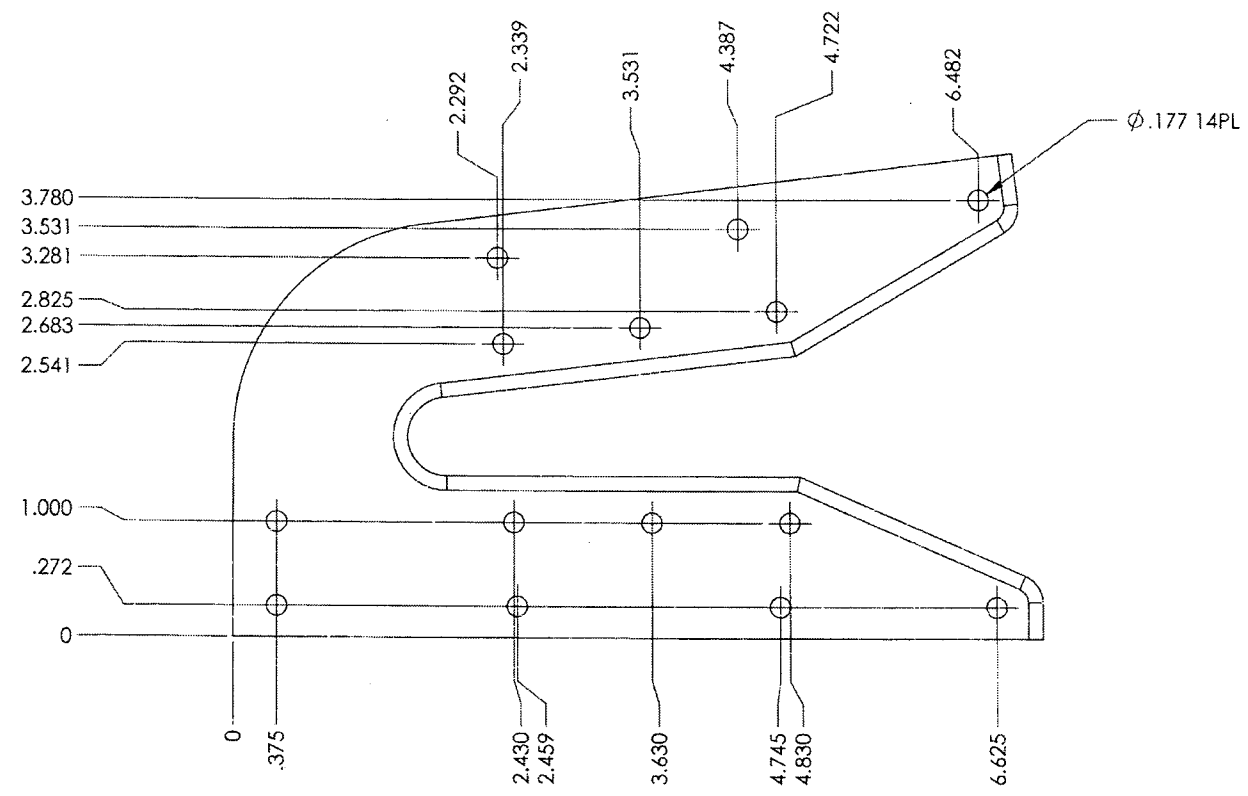
Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric <input type="checkbox"/> Cracks <input type="checkbox"/> Crimp/Kink/Ripple/Wave <input type="checkbox"/> Cuffs <input type="checkbox"/> Crushing <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Marks/Chatter <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damage/Defect <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drawing <input type="checkbox"/> Drill Holes <input type="checkbox"/> Finish <input type="checkbox"/> Fit/Function	<input type="checkbox"/> Folio/Program <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete/Unqualified <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Misaligned/off center <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Off-set <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence	<input type="checkbox"/> Outside Dimensions <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Set-up <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other
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HOLE LOCATIONS +/- .002

ORIGINAL DATE: 04-10-10		APICAL INDUSTRIES	
DRAWN BY: S. COCHRAN		2609 TEMPLE HEIGHTS DR.	
CHECKED BY: P. BRAVO		OCEANSIDE, CA. 92056-3512 (760) 724-5300	
DRAWING APPROVAL: P. BRAVO		CUTTER SUB ASSY	
DATE: 04-10-10		SCALE: NONE	
CONTRACT NO.		SHEET 4 OF 4	
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES ARE: 2 PLACE DECIMALS ± .01, 3 PLACE DECIMALS ± .005, ANGLES 1° ± .05°		REV. NC	
SIZE: B	CAGE CODE: 07M26	QTY: 649.8300	

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Suspected Unapproved <input type="checkbox"/>	AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>															
Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>															
Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>															
Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>																

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric <input type="checkbox"/> Cracks <input type="checkbox"/> Crimp/Kink/Ripple/Wave <input type="checkbox"/> Cuffs <input type="checkbox"/> Crushing <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Marks/Chatter <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damage/Defect <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drawing <input type="checkbox"/> Drill Holes <input type="checkbox"/> Finish <input type="checkbox"/> Fit/Function	<input type="checkbox"/> Folio/Program <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete/Unqualified <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Misaligned/off center <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Off-set <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence
		<input type="checkbox"/> Outside Dimensions <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge
		<input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Set-up <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other